

Product

UNIPINE 60

Print Date

12/17/2015

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SECTION I. PRODUCT AND COMPANY IDENTIFICATION

Product name Cust. Material UNIPINE 60 404381

MSDS Number Product Use Description : R00000495080 : Fragrance Ingredient

Company

IFF Inc.

600 Highway 36 Hazlet NJ 07730

Telephone
Telefax
Emergency telephone number

(732) 264-4500 (732) 335-2551 +1 800 424 9300

SECTION BHAZARDS IDENTIFICATION

GHS-Classification

Flammable liquids, Category 4 Skin irritation, Category 2 Eye irritation, Category 2A Skin sensitisation, Category 1 Aspiration hazard, Category 1

GHS-Labelling

Symbol(s)

Signal word

Danger

Hazard statements

: H227: Combustible liquid.

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: 5

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: 12/16/2015

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H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction. H319: Causes serious eye irritation.

Precautionary statements

P301 + P310: IF SWALLOWED: Immediately call a POISON

CENTER or doctor/ physician.

P302 + P352: IF ON SKIN: Wash with plenty of soap and

water.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. P331: Do NOT induce vomiting.

Carcinogenicity:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

SECTION SECONDICIONO NE SECONDATION ON INCREDIENTE

Hazardous components

Component	erran	CAS-No.
Oils, pine		8002-09-3, 8000-41-7

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SECTION 4: FIRST AID MEASURES

First aid procedures

Inhalation

Remove from exposure site to fresh air and keep at rest. Obtain

medical advice.

Skin contact

: Remove contaminated clothes. Wash thoroughly with water (and

soap). Contact physician if symptoms persist.

Eye contact

Flush immediately with water for at least 15 minutes. Contact

physician if symptoms persist.

Ingestion

: Rinse mouth with water and obtain medical advice.

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Flammable properties

Flash point

144 °F (62 °C)

Fire fighting

Suitable extinguishing media

: Use water spray, dry chemical, carbon dioxide or appropriate foam.

Protective equipment and precautions for firefighters

Special protective equipment for

firefighters

Wear NIOSH approved self-contained breathing apparatus and full protective clothing when fighting fires involving chemicals. Use

water spray to cool containers exposed to fire.

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Personal precautions

 Avoid inhalation and contact with skin and eyes. A self-contained breathing apparatus is recommended in ease of a major spill.

Environmental precautions

: Keep away from drains, surface- and groundwater and soil.

Methods for containment / Methods for cleaning up Clean up spillage promptly. Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Gross spillages should be contained by use of sand or mert powder and disposed of according to the local regulations.

Handling

Avoid excessive inhalation of concentrated vapors. Follow good manufacturing practices for housekeeping and personal hygiene. Wash any exposed skin immediately after any chemical contact, before breaks and meals, and at the end of each work period. Contaminated clothing and shoes should be thoroughly cleaned before re-use.

If appropriate, procedures used during the handling of this material should also be used when cleaning equipment or removing residual chemicals from tanks or other containers, especially when steam or hot water is used, as this may increase vapor concentrations in the workplace air. Where chemicals are openly handled, access should be restricted to properly trained employees.

Keep all heated processes at the lowest necessary temperature in order to minimize emissions of volatile chemicals into the air.

Advice on protection against fire and explosion

: Keep away from ignition sources and naked flame.

Requirements for storage areas and

Store in a cool, dry, ventilated area away from heat sources. Keep

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containers

containers upright and tightly closed when not in use.

SECTION SCENE GONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	Listed by	Value type	Exposure limit(s)
3-Cyclohexene-1- methanol, .alpha.,.alpha.,4- trimethyl-	USA. ACGIH Threshold Limit Values (TLV)	8-hour, time-weighted average	20 ppm
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-, Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4S)-	USA. ACGIH Threshold Limit Values (TLV)	8-hour, time-weighted average	20 ррт
Cyclohexene, 1- methyl-4-(1- methylethenyl)-, Cyclohexene, 1- methyl-4-(1- methylethenyl)-, (4R)-, Cyclohexene, 1-methyl-4-(1- methyl-4-(1- methylcthenyl)-, (4S)-	USA. Workplace Environmental Exposure Levels (WEEL)	8-hr TWA	30 ppm

Engineering measures

Engineering measures

: Where feasible, isolate mixing rooms and other areas where this material is used or openly handled. Maintain these areas under

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negative air pressure relative to the rest of the plant. Where feasible, use closed systems to transfer and process this material

Personal protective equipment

Eye protection

: Use tight-fitting goggles, face shield or safety glasses with side shields if eye contact might occur.

Hand protection

Avoid skin contact. Use chemically resistant gloves.

Respiratory protection

Use local exhaust ventilation around open tanks and other open sources of potential exposures in order to avoid excessive inhalation, including places where this material is openly weighed or measured. In addition, use general dilution ventilation of the work area to eliminate or reduce possible worker exposures.

No respiratory protection is required during normal operations in a workplace where engineering controls such as adequate ventilation, etc. are sufficient.

If engineering controls and safe work practices are not sufficient, an approved, properly fitted respirator with organic vapor cartridges or canisters and particulate filters should be used:

a) while engineering controls and appropriate safe work practices

and/or procedures are being implemented; or

b)during short term maintenance procedures when engineering controls are not in normal operation or are not sufficient; or c)if normal operational workplace vapor concentration in the air is

increased due to heat; d)during emergencies; or

e)if engineering controls and operational practices are not sufficient to reduce airborne concentrations below an established occupational

exposure limit.

Hygiene measures

: To the extent deemed appropriate, implement pre-placement and

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regularly scheduled ascertainment of symptoms and spirometry testing of lung function for workers who are regularly exposed to this material.

To the extent deemed appropriate, use an experienced air sampling expert to identify and measure volatile chemicals that could be present in the workplace air to determine potential exposures and to ensure the continuing effectiveness of engineering controls and operational practices to minimize exposure.

Protective measures

: In December 2003, the National Institute for Occupational Safety and Health ("NIOSH") published an Alert on preventing lung disease in workers who use or make flavorings [NIOSH Publication Number 2004-110].

In August 2004, the United States Flavor and Extract Manufacturers Association (FEMA) issued a report entitled "Respiratory Safety in the Flavor Manufacturing Workplace".

Both of these reports provide recommendations for reducing employee exposure and for medical surveillance in the workplace. The recommendations in these reports are generally applicable to the use of any chemical in the workplace and you are strongly urged to review both of these reports.

The report published by FEMA also contains a list of "high priority" chemicals. If any of these chemicals are present in this product at a concentration >= 1.0% due to an intentional addition by IFF, the chemical(s) will be identified in this safety data sheet.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state

: liquid

Appearance Colour : CLEAR LIQUID : colorless to pale yellow

Odour

: conforms to standard

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Safety data

Flash point

: 144 °F (62 °C)

Vapour pressure

: 5.33 hPa (5.33 hPa)

Note: Calculated

Relative density (20 °C)

: 0.9080 - 0.9160

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Conditions to avoid

: Remarks: Direct sources of heat.

Chemical stability

 Remarks: Presents no significant reactivity hazard, by itself or in contact with water. Avoid contact with strong acids, alkali or

oxidizing agents.

Hazardous decomposition products

Note: Carbon monoxide and unidentified organic compounds may

be formed during combustion.

(Variationalistical Variation (Carlotte Variation Variation)

Acute oral toxicity

Acute toxicity estimate

Dose: 2,193 mg/kg

Method: Calculation method

Acute oral toxicity (Component)

Component: 98-55-5

LD50 Rat

Dose: 4,300 mg/kg

Method: OECD Test Guideline 401

Remarks: RIFM

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Component: 138-86-3

LD50 Rat

Dose: 5,300 mg/kg

Acute dermal toxicity

(Component)

Component: 98-55-5

LD50 Rabbit

Dose: > 3,000 mg/kg

Method: OECD Test Guideline 402

Component: 138-86-3

LD50 Rabbit

Dose: > 5,000 mg/kg

Skin irritation (Component)

Component: 98-55-5

Rabbit

Result: Skin irritation

Method: OEOD Test Guideline 404

Exposure time: 24 h

Component: 138-86-3

Rabbit

Result: Skin irritation Exposure time: 24 h Test substance:(undiluted)

human

Result: No skin irritation Method: closed patch test Exposure time: 48 h

Eye irritation(Component)

Component: 98-55-5

Rabbit

Result: Eye irritation

Method: OECD Test Guideline 405

Exposure time: 72 h

Sensitisation (Component)

Component: 98-55-5

LLNA Rat

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Result: causes no sensitization Method: OECD Test Guideline 429

Component: 138-86-3

LLNA Mouse

Result: Causes sensitisation.

Test substance: 22% in ethanol/DEP (75:25)

maximisation study human Result: causes no sensitization Test substance: 20% in petrolatum

Repeated dose toxicity(Component)

Component: 98-55-5

OralRat

NOEL: >314 mg/kg

Method: OECD Test Guideline 408

Remarks: No adverse effect has been observed in chronic toxicity

tests.

Component: 138-86-3

Carcinogenicity (Component)

Component: 98-55-5

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Component:

98-55-5

alpha-Terpineol

Toxicity to fish:

semi-static test LC50

Species: Brachydanio rerio (zebrafish)

Dose: 70 mg/l Exposure time: 96 h

Method: OECD Test Guideline 203

Information taken from reference works and the

literature.

Toxicity to daphnia and other aquatic invertebrates:

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static test EC50

Species: Daphnia magna (Water flea)

Dose: 73 mg/l Exposure time: 48 h

Method: OECD Test Guideline 202

Information taken from reference works and the

literature.

Toxicity to algae:

static testEC50

Species: Pseudokirchneriolla subcapitata (aglae)

Dose: 68 mg/l Exposure time: 72 h

Method: OECD Test Guideline 201

Information taken from reference works and the

literature.

Toxicity to algae:

static testNOEC

Species: Pseudokirchneriella subcapitata (aglae)

Dose: 3.9 mg/l.

Exposure time: 72 h

Method: OECD Test Guideline 201

Information taken from reference works and the

literature.

Toxicity to bacteria;

static test NOEC

Species: activated sludge

Dose: 25.7 mg/l

Method: OECD Test Guideline 310

138-86-3

Dipentene

Toxicity to fish:

LC50

Species:

Dose: 0.702 mg/l Exposure time: 96 h

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Contaminated packaging

Place material into sealed containers and dispose of in accordance

with local, state and federal regulations.

DOT

Proper shipping name

Combustible liquid, n.o.s.

(DIPENTENE)

UN number

1993

Class

CBL

Packing group

111 20

Emergency Response

128

Guidebook Number

DOT NON-BULK Not dangerous goods

IATA

UN number

3082

Description of the goods

ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, LIQUID, N.O.S.

(DIPENTENE)

Packing group

: 111

ICAO-Labels

9

IMDG

UN number

3082

Description of the goods

ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, LIQUID, N.O.S.

(DIPENTENE)

Class

9

Packing group

: 111

IMDG-Labels

: 9

EmSNumber 1

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EmSNumber 2 Marine pollutant

S-F

: yes

(DIPENTENE)

SECTION SEER ECOMATRONISTRE PROPERTY

SARA 311/312 Hazards

Fire Hazard

Acute Health Hazard

Reportable Quantity

•

HMIS Classification

: Health hazard; 1

Flatimability: 2

Physical and chemical hazards: 0

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Further information

The information in this MSDS was obtained from current and reliable sources. However the data is provided, without any warrant, expressed or implied, regarding its correctness or accuracy. Since the use, handling, storage and disposal of this product are beyond IFF control, it is the responsibility of the user both to determine safe conditions for the use of this product and to assume liability of loss, damage, or expense arising out of the product's improper use. No warranty expressed or implied regarding the product described herein shall be created by or inferred from any statement or emission in this MSDS. Various Federal, State or Provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in this MSDS. The user should review these regulations to ensure full compliance.

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